

## OBHS Core Questions:

Subject: Maths

Year and Term: Autumn 1 year 11

Topic: A14



Learn these questions to build a strong foundation of knowledge for this half-term. Ask family or friends to test you regularly, or practise on your own using the 'Look, Say, Cover, Write' method.

	Question	Answer
1.	What shape is a quadratic graph?	Quadratic graphs are U-shaped (parabola) when the coefficient 'a' is positive (happy parabola) and $\cap$ -shaped when 'a' is negative (sad parabola).
2.	How do you find the y-intercept?	The y-intercept is found by setting $x = 0$ in the equation.
3.	How do you find the roots of a graph?	These are the points where the graph crosses the x-axis. To find them, set the equation $y = 0$ and solve for x.
4.	What is a vertex?	The vertex is the turning point of the parabola. For a U-shaped graph, it's the minimum point, and for a $\cap$ -shaped graph, it's the maximum point. The vertex can be found by completing the square.
5.	Are quadratic graphs symmetrical?	Yes, Quadratic graphs are symmetrical about a vertical line (axis of symmetry) that passes through the vertex.